



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	
17.0	3.94	5.01	6.33										
20.0	3.83	4.89	6.18	7.73									
25.0	3.63	4.66	5.91	7.40	9.16	11.20							
30.0	3.41	4.41	5.62	7.05	8.74	10.70	13.00	14.00					
35.0	3.19	4.15	5.31	6.68	8.29	10.15	12.35	13.30	14.85	16.20	17.70		
40.0	2.95	3.88	4.98	6.29	7.82	9.60	11.65	12.60	14.05	15.35	16.75	19.80	
45.0	2.70	3.59	4.64	5.87	7.32	9.01	10.95	11.80	13.20	14.45	15.75	18.70	
50.0		3.29	4.28	5.44	6.80	8.39	10.20	11.05	12.35	13.50	14.75	17.50	
55.0			3.90	4.99	6.26	7.74	9.46	10.20	11.45	12.55	13.70	16.30	
60.0				4.52	5.69	7.07	8.66	9.37	10.50	11.55	12.60	15.05	
65.0					5.11	6.37	7.84	8.49	9.54	10.50	11.50		
67.0						6.08	7.50	8.13	9.14	10.05	11.05		

50 Hz

ZH30K4E-PFJ

R407C Dew Point

Cond °C	Power, kW											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	1.50	1.55	1.60									
20.0	1.60	1.65	1.69	1.74								
25.0	1.76	1.82	1.86	1.91	1.96	2.02						
30.0	1.92	2.00	2.05	2.10	2.15	2.21	2.27	2.30				
35.0	2.09	2.18	2.26	2.32	2.37	2.42	2.48	2.51	2.55	2.60	2.64	
40.0	2.28	2.39	2.48	2.55	2.62	2.67	2.73	2.76	2.80	2.84	2.88	2.98
45.0	2.48	2.61	2.73	2.82	2.89	2.96	3.02	3.05	3.09	3.12	3.16	3.25
50.0		2.86	3.00	3.11	3.20	3.28	3.35	3.38	3.42	3.46	3.49	3.58
55.0			3.30	3.43	3.55	3.64	3.72	3.76	3.80	3.84	3.88	3.96
60.0				3.80	3.93	4.05	4.15	4.18	4.24	4.28	4.32	4.41
65.0					4.36	4.50	4.62	4.67	4.73	4.78	4.82	
67.0						4.70	4.83	4.87	4.94	4.99	5.04	

Cond °C	Current at 230 V, A											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	8.73	8.88	9.03									
20.0	9.07	9.23	9.38	9.54								
25.0	9.63	9.83	9.99	10.15	10.33	10.54						
30.0	10.20	10.45	10.66	10.84	11.01	11.21	11.44	11.55				
35.0	10.80	11.13	11.39	11.61	11.80	12.00	12.23	12.33	12.50	12.65	12.83	
40.0	11.46	11.88	12.21	12.49	12.72	12.95	13.17	13.27	13.43	13.58	13.74	14.12
45.0	12.19	12.72	13.15	13.50	13.79	14.05	14.30	14.41	14.57	14.71	14.86	15.22
50.0		13.67	14.21	14.66	15.03	15.35	15.64	15.75	15.93	16.07	16.23	16.57
55.0			15.43	15.98	16.45	16.85	17.20	17.33	17.53	17.69	17.86	18.21
60.0				17.50	18.08	18.58	19.01	19.17	19.40	19.58	19.77	20.15
65.0					19.94	20.55	21.08	21.27	21.55	21.77	21.98	
67.0						21.41	21.98	22.19	22.49	22.73	22.96	

Cond °C	Suction Mass Flow, g/s												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	
17.0	21.00	26.30	32.70										
20.0	20.90	26.20	32.60	40.20									
25.0	20.60	26.10	32.50	40.10	48.90	59.10							
30.0	20.30	25.80	32.30	39.90	48.70	58.80	70.30	75.40					
35.0	19.90	25.50	32.00	39.60	48.30	58.40	69.80	74.80	82.80	89.80	97.30		
40.0	19.40	25.00	31.60	39.10	47.90	57.80	69.20	74.10	82.00	89.00	96.50	112.50	
45.0	18.80	24.50	31.00	38.60	47.20	57.10	68.40	73.30	81.10	88.10	95.40	111.50	
50.0		23.80	30.40	37.90	46.50	56.30	67.40	72.30	80.00	86.90	94.20	110.00	
55.0			29.60	37.00	45.50	55.20	66.20	71.10	78.70	85.60	92.80	108.50	
60.0				36.00	44.40	54.00	64.90	69.70	77.30	84.00	91.20	107.00	
65.0					43.20	52.60	63.40	68.10	75.60	82.30	89.40		
67.0						52.00	62.70	67.40	74.90	81.60	88.70		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.7
Length/Width, mm	247/241
Height, mm	438
Net Weight, kg	38
Gross Weight, kg	41
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	62
Sound Power (HT), dBA	73
Sound Power with Sound Shell (HT), dBA	65
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Low Side Internal Free Volume, l	0.6
Max. High Side Internal Free Volume, l	6.0
Max. Internal Free Volume, l	6.60
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

50 Hz

ZH30K4E-PFJ

R407C Dew Point

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	25
Locked Rotor Current, A	108
Winding Resistance, ohm	0.6/1.95 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Discharge Temperature Protection	Discharge line thermostat
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MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
PFJ	220-240 V / 1~ / 50 Hz	230		PSC	1.00
PFJ	265 V / 1~ / 60 Hz	265		PSC	0.75